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TITLE: BOILER TUBE FOR CITY REFUSE INCINERATOR

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INVENTOR-INFORMATION:
NAME
MORIMOTO, JUNJI
HAMAMOTO, TAKANORI
OTSUKA, TAKAO
KOYAMA, MASAHIRO
YAMADA, KATSUHIRO
TOYAMA, KAZUHIRO

ASSIGNEE-INFORMATION:
NAME COUNTRY
HITACHI ZOSEN CORP N/A

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ABSTRACT:

PURPOSE: To obtain a boiler tube for a city refuse incinerator, having excellent wear resistance and corrosion resistance by forming an allay film made of 15-55wt.% of Cr and the balance of Ni on an outer surface of a heat transfer tube by an explosion spraying method.

CONSTITUTION: A heat exchanger 5 is formed by aligning many heat transfer tubes 9 longitudinally between a left side wall 7 and a right side wall 8 in a lengthwise direction, and soot blowers 6 are provided on a back wall 10. A metal film 12 made of 15-55wt.% of Cr and the balance wt.% of Ni is formed on an outer periphery of part of the tube 9 group oppositely to drain vapor from the blowers 6 by an explosion spraying method. As a result, an increase in oxidation of the explosion spraying method is reduced as compared with that of a flame spraying method with lapse of time. Accordingly, the explosion spraying method can form a dense film having a high adhesive strength to provide an excellent high temperature resistance.

DB Name	Query	Hit C unt	Set Name
ALL	l15 same l11	422	L17
ALL	l15 and l11	1285	L16
ALL	corrosion resist$4 same (chromium or Cr) same (nickel or Ni)	9627	L15
ALL	corrosion resist$4 same (chromium or cr)	17843	L14
ALL	l11 same l12	3046	L13
ALL	(chromium or Cr) near5 (nickel or Ni)	91641	L12
ALL	(atomiz$4 or atomis$4 or atomization or atomisation or spray$3)	486785	L11
ALL	(atomiz$4 or atomis$4 or atomization or atomisation or spray$3) same (nickel or Ni) near4 (% or percent) same (chromium or Cr)near$4 (% or percent)	0	L10
ALL	(atomiz$4 or atomis$4 or atomization o atomisation) same (nickel or Ni) near4 (% or percent) same (chromium or Cr)near$4 (% or percent)	0	L9
ALL	(atomiz$4 or atomis$4 or atomization o atomisation) same (nickel or Ni) same (chromium or Cr)	609	L8
ALL	corrosion resist$4 same high (chromium or Cr) content	131	L7
ALL	l4 and corrosion resist$4	332	L6
ALL	l1 and corrosion resist$4	1065	L5
ALL	(chromium or Cr) near3 (40% or 40 percent) same (nickel or Ni)	993	L4
ALL	(chromium or Cr) near4 (40% or 40 percent) same (nickel or Ni)	1189	L3
ALL	(chromium or Cr) same (nickel or Ni) same (40% or 40 percent)	3111	L2
ALL	corrosion resist$4 same (40% or 40 percent)	1065	L1